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20. (New) The process of claim 2, wherein applying RF energy to the imaging object according to a fast-spin echo technique includes applying an RF pulse corresponding to the angular precession frequency for a selected plane of the imaging object.

21. (New) The process of claim 20, further comprising, after providing the imaging data, moving the imaging object and applying an RF pulse corresponding to the same angular precession frequency, to select a different plane of the imaging object.

22. (New) The process of claim 20, further comprising, after providing the imaging data, applying an RF pulse corresponding to a different angular precession frequency, to select a respective different plane of the imaging object, without moving the imaging object.

23. (New) The process of claim 11, wherein the imaging object is a human being, and the uniform polarizing magnetic field is produced by a magnetic resonance imaging system, wherein the human being stands upright within the uniform polarizing magnetic field.

24. (New) The process of claim 12, wherein the first 90-degree RF excitation pulse corresponds to the angular precession frequency for a selected plane of the imaging object.

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25. (New) The process of claim 24, further comprising, after providing the imaging data, moving the imaging object and applying the first 90-degree RF excitation pulse corresponding to the same angular precession frequency, to select a different plane of the imaging object.

26. (New) The process of claim 24, further comprising, after providing the imaging data, applying the first 90-degree RF excitation pulse corresponding to a different angular precession frequency, to select a respective different plane of the imaging object, without moving the imaging object.
